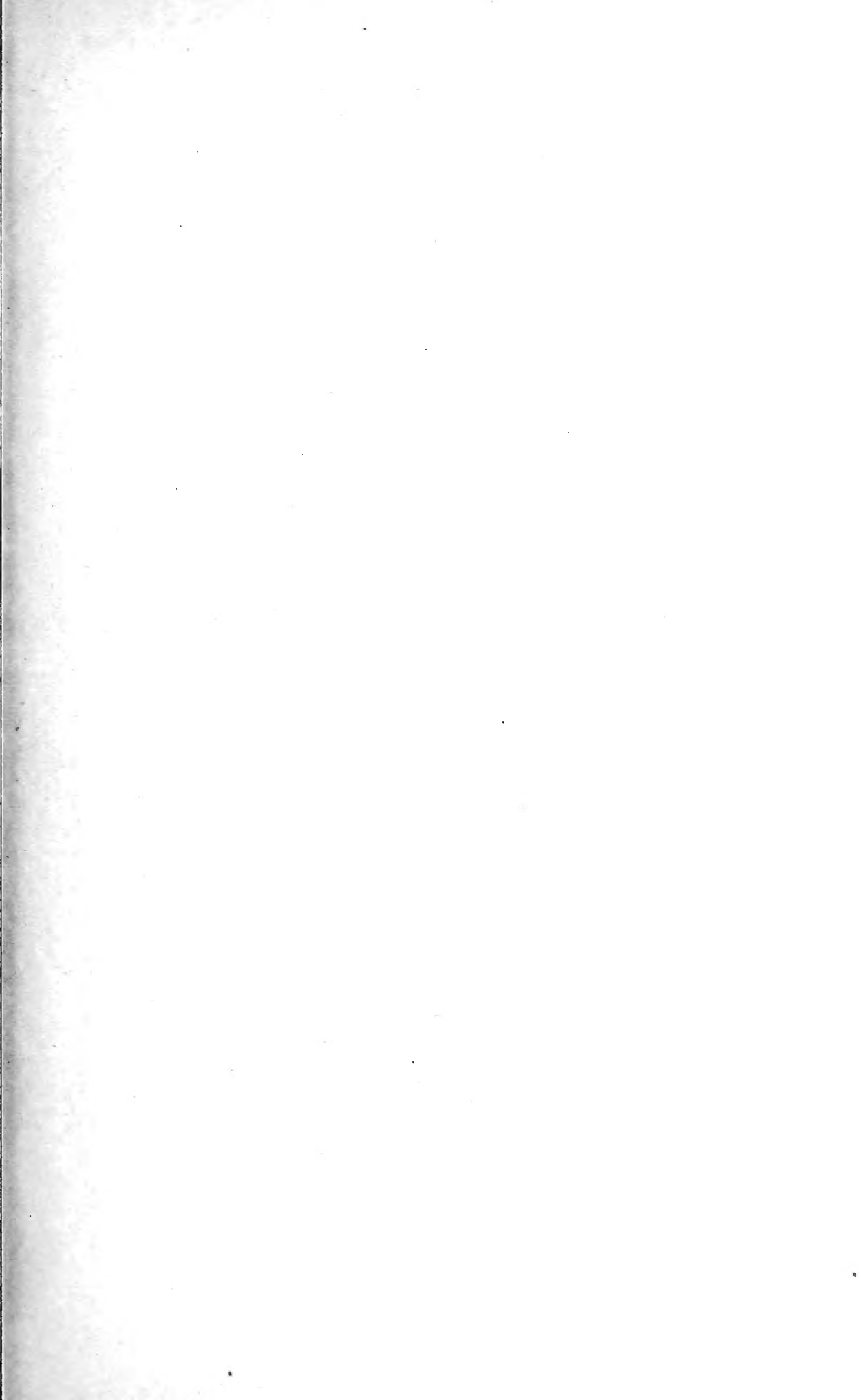


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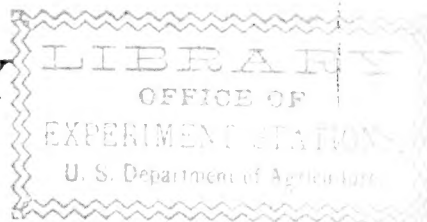
U. S. DEPARTMENT OF AGRICULTURE.

DIVISION OF ENTOMOLOGY.

OCT 20 1898

BIBLIOGRAPHY

OF



THE MORE IMPORTANT CONTRIBUTIONS

TO

AMERICAN ECONOMIC ENTOMOLOGY.

PART VI.

THE MORE IMPORTANT WRITINGS PUBLISHED BETWEEN
JUNE 30, 1888, AND DECEMBER 30, 1896.

PREPARED UNDER THE DIRECTION OF THE ENTOMOLOGIST

BY

NATHAN BANKS,
ASSISTANT.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1898.

FORTY-SEVENTH CONGRESS, FIRST SESSION.

CONGRESS OF THE UNITED STATES,
IN THE HOUSE OF REPRESENTATIVES,

June 24, 1882.

Resolved, By the House of Representatives (the Senate concurring), that there be printed, for the use of the Department of Agriculture, one thousand copies of a special report entitled "Bibliography of Economic Entomology."

Attest:

EDW. MCPHERSON, *Clerk.*

Passed the Senate July 6, 1882.

F. E. SHOBER, *Acting Secretary.*

A true copy.

EDW. MCPHERSON, *Clerk.*

LETTER OF TRANSMITTAL.

UNITED STATES DEPARTMENT OF AGRICULTURE,
DIVISION OF ENTOMOLOGY,
Washington, D. C., March 15, 1898.

SIR: I transmit herewith for publication Part VI of the Bibliography of the More Important Contributions to American Economic Entomology, bringing the whole bibliography down to the close of the calendar year 1896. This part was promised in the letter of transmittal to Part V.

Respectfully,

L. O. HOWARD,
Entomologist.

Hon. JAMES WILSON,
Secretary of Agriculture.

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A popular-scientific general consideration of the subject and of remedial measures, with especial mention of 13 species, as follows: *Calandra granaria*, *C. oryza*, *Gelechia cerealella*, *Ephestia kuehniella*, *Plodia interpunctella*, *Pyralis farinalis*, *Tinea granella*, *Silvanus surinamensis*, *Tribolium confusum*, *T. ferrugineum*, *Echocerus maxillosus*, *Cathartus gemellatus*, and *Tenebroides mauritanicus*.

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Discovery of *Silvanus mercator* in America; distribution and characters.

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1258. LINTNER, J. A. Sweet-potato beetles. <Count. Gentl., 3 July,
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1259. LINTNER, J. A. A new bug. <N. Eng. Homestead, 5 July,
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1260. LINTNER, J. A. The cut worm. <Count. Gentl., 24 July, 1890,
p. 590.
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1261. LINTNER, J. A. Locust-tree borer. <Count. Gentl., 14 August,
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1262. LINTNER, J. A. Elm-tree beetle. <Count. Gentl., 14 August,
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1263. LINTNER, J. A. Insect parasites. <Count. Gentl., 21 August, 1890, p. 662.
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1264. LINTNER, J. A. The carpet beetle. <Count. Gentl., 21 August, 1890, p. 662.
1265. LINTNER, J. A. Spittle insects. <Count. Gentl., 25 September, 1890, p. 759.
1266. LINTNER, J. A. The pear-leaf blister. <Count. Gentl., 2 October, 1890, p. 781.
1267. LINTNER, J. A. Weevils in rye. <Count. Gentl., 2 October, 1890, p. 782.
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1268. LINTNER, J. A. Diseased Austrian pines. <Count. Gentl., 16 October, 1890, p. 820.
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1269. LINTNER, J. A. Bean weevil. <Count. Gentl., 13 November, 1890, p. 898.
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1270. LINTNER, J. A. The larch saw-fly. <Count. Gentl., 13 November, 1890, p. 905.
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1271. LINTNER, J. A. Bot-fly of the hare. <Count. Gentl., 13 November, 1890, pp. 905-906.
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1272. LINTNER, J. A. Insects infesting maple trees. <N. Eng. Homestead, 15 November, 1890.
1273. LINTNER, J. A. The striped cucumber beetle. <Count. Gentl., 20 November, 1890, p. 925, 926.
1274. LINTNER, J. A. The woolly-bear caterpillar. <Count. Gentl., 27 November, 1890, p. 941.
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1275. LINTNER, J. A. Apple-leaf bucculatrix. <Count. Gentl., 4 December, 1890, p. 962.
1276. LINTNER, J. A. Sixth report on the injurious and other insects of the State of New York. <From the 43d Rept. N. Y. State Museum of Nat. Hist., 1890, pp. 103-203, figs. 25.
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1277. LINTNER, J. A. The squash bug. <Count. Gentl., 8 January, 1891, p. 23.
1278. LINTNER, J. A. Grain weevil infesting mills. <Count. Gentl., 15 January, 1891, p. 47.

1279. LINTNER, J. A. Bacon beetle. <Count. Gentl., 12 February, 1891, p. 130.
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1280. LINTNER, J. A. Scale insects. <Count. Gentl., 26 March, 1891, p. 257.
1281. LINTNER, J. A. Bark lice. <Count. Gentl., 26 March, 1891, p. 257.
1282. LINTNER, J. A. Injurious insects. <Count. Gentl., 2 April, 1891, p. 273.
1283. LINTNER, J. A. Quince-tree borer. <Count. Gentl., 9 April, 1891, p. 294.
1284. LINTNER, J. A. Honey-dew on pear twigs. <Count. Gentl., 16 April, 1891, p. 317.
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1288. LINTNER, J. A. Apple-tree insects of early spring. <Count. Gentl., 7 May, 1891, p. 374, 375.
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1289. LINTNER, J. A. Orange leaf trouble. <Count. Gentl., 7 May, 1891, p. 375.
1290. LINTNER, J. A. How to kill the rose bug. <N. Eng. Homestead, 9 May, 1891, p. 205.
1291. LINTNER, J. A. The apple-worm. <Count. Gentl., 28 May, 1891, p. 438.
1292. LINTNER, J. A. Wheat insects. <Count. Gentl., 28 May, 1891, p. 438.
1293. LINTNER, J. A. Wire-worms in corn. <Count. Gentl., 28 May, 1891, p. 431.
1294. LINTNER, J. A. Melon and strawberry pests. <Count. Gentl., 4 June, 1891, p. 457.
1295. LINTNER, J. A. The peach-tree borer. <Count. Gentl., 4 June, 1891, p. 457.
1296. LINTNER, J. A. A serious danger—The new pest that threatens the pear crop. <N. Eng. Homestead, 13 June, 1891, p. 249.
Treats of the pear midge.
1297. LINTNER, J. A. The gartered plume moth. <Count. Gentl., 18 June, 1891, p. 497.

1298. LINTNER, J. A. New strawberry pest. <Count. Gentl., 25 June, 1891, p. 575.
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1299. LINTNER, J. A. Lady bug and cherry aphid. <Count. Gentl., 2 July, 1891, p. 537.
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1300. LINTNER, J. A. Beet insects. <Count. Gentl., 16 July, 1891, p. 577.
1301. LINTNER, J. A. Apple aphid. <Count. Gentl., 16 July, 1891, p. 578.
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1302. LINTNER, J. A. The pear-tree Psylla. <Count. Gentl., 6 August, 1891, p. 637.
1303. LINTNER, J. A. Insects injuring red raspberries. <Rural N. Yorker, 8 August, 1891, p. 577.
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1304. LINTNER, J. A. Pine beetle injuring linen. <Count. Gentl., 27 August, 1891, p. 700.
1305. LINTNER, J. A. Foes of the Kilmarnock willow. <Orange County Farmer, 3 September, 1891, p. 1.
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1307. LINTNER, J. A. The locust mite. <Count. Gentl., 24 September, 1891, p. 775.
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1308. LINTNER, J. A. The Cecropia caterpillar. <Count. Gentl., 24 September, 1891, p. 777.
1309. LINTNER, J. A. An interesting caterpillar. <Count. Gentl., 1 October, 1891, p. 797.
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1310. LINTNER, J. A. Grapevine leaf-hopper. <Count. Gentl., 8 October, 1891, p. 815.
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1311. LINTNER, J. A. The squash bug. <Count. Gentl., 22 October, 1891, p. 854.
1312. LINTNER, J. A. A destructive potato aphid. <Count. Gentl., 22 October, 1891, p. 857.
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1314. LINTNER, J. A. Sprayed grapes are harmless. <Ent. News., November, 1891, p. 181.

1315. LINTNER, J. A. The pear midge, *Diplosis pyrivora*, in New York. <Can. Ent., November, 1891, p. 224.
1316. LINTNER, J. A. On the eye-spotted bud moth in western New York. <Can. Ent., November, 1891, p. 231.
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1318. LINTNER, J. A. Killing the pea weevil. <Rural N. Yorker, 2 April, 1892, p. 227.
1319. LINTNER, J. A. Early grasshoppers. <Count. Gentl., 14 April, 1892, pp. 286-287.
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1320. LINTNER, J. A. Cluster flies, *Pollenia rudis*. <Count. Gentl., 5 May, 1892, p. 358.
1321. LINTNER, J. A. Slugs on pear trees. <Count. Gentl., 19 May, 1892, p. 387.
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1322. LINTNER, J. A. The cherry-tree aphid on the wild-goose plum. <Count. Gentl., 26 May, 1892, p. 407.
 Remarks on *Myzus cerasi*.
1323. LINTNER, J. A. The scurfy bark-louse. <Count. Gentl., 9 June, 1892, p. 458.
1324. LINTNER, J. A. The harlequin cabbage bug. <Count. Gentl., 9 June, 1892, p. 458.
1325. LINTNER, J. A. The pear-tree psylla. <Science, 17 June, 1892, pp. 343-344.
1326. LINTNER, J. A. The apple-tree tent-caterpillar. <Count. Gentl., 23 June, 1892, p. 492.
1327. LINTNER, J. A. Aster and lily pests. <Count. Gentl., 23 June, 1892, p. 492.
 No definite determinations.
1328. LINTNER, J. A. The cow-horn fly. <Count. Gentl., 30 June, 1892, p. 501.
1329. LINTNER, J. A. The meal-worm, *Tenebrio obscurus*. <Count. Gentl., 30 June, 1892, p. 501.
1330. LINTNER, J. A. The pear-leaf blister. <Count. Gentl., 30 June, 1892, p. 504.

1331. LINTNER, J. A. Injuries to a maple tree. <Count. Gentl., 21 July, 1892, p. 552.
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1332. LINTNER, J. A. A cauliflower pest. <Count. Gentl., 11 August, 1892, p. 600.
Pieris rapæ on cauliflower.
1333. LINTNER, J. A. Pear-eating beetle. <Count. Gentl., 8 September, 1892, p. 667.
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1334. LINTNER, J. A. Roseleaf caterpillar. <Count. Gentl., 8 September, 1892, p. 667.
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1335. LINTNER, J. A. Strawberry root grub. <Count. Gentl., 8 September, 1892, p. 667.
1336. LINTNER, J. A. The black blister beetle. <Count. Gentl., 15 September, 1892, p. 689.
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1337. LINTNER, J. A. The hag-moth caterpillar. <Count. Gentl., 22 September, 1892, p. 709.
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1338. LINTNER, J. A. Remedy for the army worm. <Count. Gentl., 6 October, 1892, p. 750.
1339. LINTNER, J. A. Weevil in a granary. <Count. Gentl., 6 October, 1892, p. 750.
1340. LINTNER, J. A. Cabbage worms. <Count. Gentl., 13 October, 1892, p. 767.
1341. LINTNER, J. A. Tent caterpillar. <Count. Gentl., 13 October, 1892, p. 767.
1342. LINTNER, J. A. Kerosene emulsion. <Count. Gentl., 13 October, 1892, p. 767.
1343. LINTNER, J. A. Will the cow-horn fly remain with us? <Count. Gentl., 13 October, 1892, p. 769.
1344. LINTNER, J. A. A thrips attack on cabbage. <Count. Gentl., 27 October, 1892, p. 809.
1345. LINTNER, J. A. The *Tischeria* apple-leaf miner. <Count. Gentl., 27 October, 1892, p. 809.
Remedy for *Tischeria malifoliella*.
1346. LINTNER, J. A. Distribution of the pear *Psylla*. <Count. Gentl., 3 November, 1892, p. 831.
1347. LINTNER, J. A. The cow-horn fly in New York. <Count. Gentl., 10 November, 1892, p. 847.
1348. LINTNER, J. A. Apple-tree *Bucculatrix*. <Count. Gentl., 22 December, 1892, p. 967.

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1350. LINTNER, J. A. How to prevent the ravages of the cabbage maggot. <Gardening, 1 February, 1893, p. 155.
1351. LINTNER, J. A. A destructive elm-tree bark-borer. <Garden and Forest, 15 February, 1893, p. 76.
Remarks on *Saperda tridentata*.
1352. LINTNER, J. A. Plant-lice. <Count. Gentl., 9 March, 1893, p. 186.
1353. LINTNER, J. A. The Angoumois-moth, *Sitotroga cerealella*. <Count. Gentl., 9 March, 1893, pp. 188, 189.
1354. LINTNER, J. A. Report of the committee on entomology. <Proc. Western N. Y. Hortic. Soc., January, 1893, pp. 28-43.
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1355. LINTNER, J. A. The periodical cicada. <Count. Gentl., 23 March, 1893, p. 226.
1356. LINTNER, J. A. Mites attacking mushrooms. <Count. Gentl., 23 March, 1893, pp. 228, 229.
1357. LINTNER, J. A. Flower crickets and apple twigs. <Count. Gentl., 30 March, 1893, p. 246.
Eggs of *Acanthus*.
1358. LINTNER, J. A. The onion-fly—*Phorbia ceparum*. <Count. Gentl., 30 March, 1893, p. 246.
1359. LINTNER, J. A. Myriapods and mites in "scabby" potatoes. <Count. Gentl., 27 April, 1893, p. 329.
1360. LINTNER, J. A. Spraying for codling moth. <Count. Gentl., 27 April, 1893, p. 329.
1361. LINTNER, J. A. [Insects on lettuce and cabbage.] <Gardening, 1 May, 1893, p. 264.
1362. LINTNER, J. A. The clover-hay worm—*Pyralis costalis* Fabr. <Count. Gentl., 4 May, 1893, p. 349.
1363. LINTNER, J. A. When to spray. <Count. Gentl., 11 May, 1893, p. 368.
1364. LINTNER, J. A. Clover-leaf weevil. <Count. Gentl., 18 May, 1893, p. 386.
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1365. LINTNER, J. A. Apple-tree borer. <Count. Gentl., 18 May, 1893, p. 387.
Pupæ of *Saperda candida*.
1366. LINTNER, J. A. The bud-worm. <Count. Gentl., 18 May, 1893, p. 387.
1367. LINTNER, J. A. A danger to apple buds. <The N. Y. Homestead, 25 May, 1893, p. 236.
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1368. LINTNER, J. A. The invasion of plant-lice in New York. <Amer. Farmer, 1 June, 1893, p. 1.
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1369. LINTNER, J. A. The apple-tree aphid. <Count. Gentl., 8 June, 1893, p. 449.
1370. LINTNER, J. A. Some potato pests. <Count. Gentl., 8 June, 1893, p. 449.
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1371. LINTNER, J. A. A greenhouse pest. <Gardening, 15 June, 1893, p. 313.
An undescribed species of *Sciara*.
1372. LINTNER, J. A. The apple-tree aphid. <Amer. Farmer, 15 June, 1893, p. 8.
Unusual abundance of the pest and the remedies.
1373. LINTNER, J. A. A new peach insect. <Count. Gentl., 29 June, 1893, p. 508.
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1374. LINTNER, J. A. Caterpillar on rye. <Count. Gentl., 29 June, 1893, p. 508.
Note of *Leucania albilinea*.
1375. LINTNER, J. A. Ants on fruit-trees. <Count. Gentl., 6 July, 1893, p. 523.
Mentions two species, *Camponotus herculeanus* and *Cremastogaster cerasi*.
1376. LINTNER, J. A. A new grapevine pest. <Count. Gentl., 6 July, 1893, p. 523.
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1377. LINTNER, J. A. Ants on peonies. <Count. Gentl., 6 July, 1893, p. 524.
1378. LINTNER, J. A. Three-lined leaf-beetle. <Count. Gentl., 6 July, 1893, p. 524.
Damage to gardens by *Lema trilineata*.
1379. LINTNER, J. A. [The Angoumois moth.] <Orange County Farmer, 6 July, 1893, p. 4.
1380. LINTNER, J. A. The wheat-head army-worm. <Count. Gentl., 13 July, 1893, p. 539.
Remarks on *Leucania albilinea*.

1381. LINTNER, J. A. The zebra caterpillar. <Count. Gentl., 13 July, 1893, p. 539.
1382. LINTNER, J. A. Wheat-weevil. <Count. Gentl., 13 July, 1893, p. 540.
1383. LINTNER, J. A. [Entomological.] <Count. Gentl., 20 July, 1893, pp. 557-558.
Treats of *Enchenopa binotata* on wistaria, *Glycobius speciosus* in maple, elm leaf-beetle, *Dytiscus harrisii*, *Telca polyphemus*, and *Pemphigus acerifolii*.
1384. LINTNER, J. A. The walnut span-worm. <Gardening, 15 August, 1893, p. 377.
Damage probably by *Boarmia plumogeraria*.
1385. LINTNER, J. A. How to control the squash-bug. <Gardening, 15 August, 1893, p. 377.
1386. LINTNER, J. A. Bagworm. <Count. Gentl., 17 August, 1893, p. 634.
1387. LINTNER, J. A. Grain-weevil. <Count. Gentl., 31 August, 1893, p. 674.
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1389. LINTNER, J. A. The cabbage aphis. <Count. Gentl., 14 September, 1893, p. 717.
1390. LINTNER, J. A. Plugging trees with sulphur. <Count. Gentl., 28 September, 1893, p. 753.
1391. LINTNER, J. A. Black blister beetle attack on asters. <Gardening, 1 October, 1893, p. 28.
Records *Epicauta pennsylvanica* on asters in Illinois.
1392. LINTNER, J. A. The clover-seed caterpillar. <Count. Gentl., 5 October, 1893, p. 773.
Life-history of *Grapholitha interstictana*.
1393. LINTNER, J. A. Grasshopper plague in New York. <Count. Gentl., 12 October, 1893, p. 793.
Abundance of *Melanoplus femur-rubrum* and *M. atlantis* in western New York, remedies for same.
1394. LINTNER, J. A. A potato-beetle killer. <Orange County Farmer, 19 October, 1893, p. 1.
Notice of *Lebia grandis*.
1395. LINTNER, J. A. Insect pests. <Gardening, 15 November, 1893, p. 77.
1396. LINTNER, J. A. On arsenical spraying of fruit-trees while in blossom. <Insect Life, 1893, pp. 181-185. Also in 24th Ann. Rept. Ent. Soc. Ont., p. 102.

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1398. LINTNER, J. A. Grubs destroying mermet roses. <The Florist's Exchange, 10 February, 1894, p. 176.
Injury to the roots by white grubs.
1399. LINTNER, J. A. A maple-tree scale insect. <Gardening, 15 March, 1894, p. 206.
Treats of *Pulvinaria innumerabilis*.
1400. LINTNER, J. A. The rose slug. <Gardening, 1 April, 1894, p. 230.
Account of *Monostegia rosæ*, *Cladius pectinicornis* and *Emphytus cinctus*.
1401. LINTNER, J. A. White worms at the roots of house-plants. <Gardening, 15 April, 1894, p. 257.
1402. LINTNER, J. A. Apple maggot—*Trypeta pomonella*. <Count. Gentl., 3 May, 1894, p. 349.
1403. LINTNER, J. A. The insect that kills the pine-tree borers. <Gardening, 15 May, 1894.
Notice of the introduction of *Clerus formicarius* to prey on *Dendroctonus frontalis*.
1404. LINTNER, J. A. Probably white grubs. <Count. Gentl., 17 May, 1894, p. 386.
1405. LINTNER, J. A. The periodical cicada or the seventeen-year locust. <Circular, Albany, N. Y., 19 June, 1894, pp. 4.
1406. LINTNER, J. A. Pear-leaf blister mite. <Count. Gentl., 21 June, 1894, p. 468.
1407. LINTNER, J. A. Chestnut weevil. <Count. Gentl., 5 July, 1894, p. 504.
Notice of *Balininus caryatrypes*.
1408. LINTNER, J. A. Rose-bugs. <Count. Gentl., 5 July, 1894, p. 504.
1409. LINTNER, J. A. Friendly insects. <Count. Gentl., 5 July, 1894, p. 504.
Remarks on *Chilocorus bivulnerus*.
1410. LINTNER, J. A. Plant-lice at the roots of asters. <Gardening, 15 July, 1894, p. 358.
Probably *Aphis middletonii*.
1411. LINTNER, J. A. Ants in strawberry beds. <Count. Gentl., 2 August, 1894, p. 568.

1412. LINTNER, J. A. Grapevine caterpillar. <Count. Gentl., 2 August, 1894, p. 568.
Notice of larva of *Thyreus abbotii*.
1413. LINTNER, J. A. Enemies of the potato beetle. <Count. Gentl., 2 August, 1894, p. 568.
1414. LINTNER, J. A. Elm-leaf beetle. <Count. Gentl., 16 August, 1894, p. 600.
1415. LINTNER, J. A. Worms destroying canna leaves. <Florist's Exchange, 8 September, 1894, p. 788.
Notice of *Pamphila ethlius* and an Arctiid larva on foliage of cannas.
1416. LINTNER, J. A. Sumac galls. <Count. Gentl., 20 September, 1894, p. 686.
Notes on *Melaphis rhois*.
1417. LINTNER, J. A. The box-elder plant-bug. <Count. Gentl., 27 September, 1894, p. 699.
1418. LINTNER, J. A. A beetle feeding on green corn. <Count. Gentl., 27 September, 1894, p. 701.
Note on *Euphoria inda*.
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2347. RILEY, C. V., and HOWARD, L. O. *Nezara* puncturing bean buds. <Insect Life, v. 2, November, 1889, pp. 147-148.
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